



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI
TROPICAL WEATHER OUTLOOK**

DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 22.03.2022

SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0330 UTC OF 22.03.2022 BASED ON 0000 UTC OF 22.03.2022.

SUB: DEEP DEPRESSION OVER NORTH ANDAMAN SEA AND ADJOINING AREAS OF EASTCENTRAL BAY OF BENGAL

THE DEEP DEPRESSION OVER NORTH ANDAMAN SEA AND ADJOINING AREAS OF EASTCENTRAL AND SOUTHEAST BAY OF BENGAL, MOVED NORTHWARDS WITH A SPEED OF 16 KMPH DURING LAST 06 HOURS, AND LAY CENTERED AT 0000 HOURS UTC OF TODAY, THE 22ND MARCH, OVER NORTH ANDAMAN SEA AND ADJOINING AREAS OF EASTCENTRAL BAY OF BENGAL, NEAR LATITUDE 14.9°N AND LONGITUDE 94.1°E, ABOUT 250 KM NORTH-NORTHEAST OF MAYABUNDAR(43309) (ANDAMAN ISLANDS), 390 KM NORTH-NORTHEAST OF PORT BLAIR(43333) (ANDAMAN ISLANDS), 300 KM SOUTHWEST OF YANGON(48097) (MYANMAR) AND 400 KM SOUTH OF THANDWE(48080) (MYANMAR).

IT WOULD CONTINUE TO MOVE NEARLY NORTHWARDS AWAY FROM ANDAMAN ISLANDS, WEAKEN GRADUALLY AND CROSS MYANMAR COAST AS A DEEP DEPRESSION BETWEEN LATITUDE 16°N & 18°N AROUND 0800 TO 0900 UTC OF 22ND MARCH.

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

DATE/TIME (UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
22.03.22/0000	14.9/94.1	55-65 GUSTING TO 75	DEEP DEPRESSION
22.03.22/0600	15.8/94.2	50-60 GUSTING TO 70	DEEP DEPRESSION
22.03.22/1200	16.7/94.4	45-55 GUSTING TO 65	DEPRESSION

AS PER INSAT 3D IMAGERY, INTENSITY OF THE SYSTEM IS CHARACTERISED AS T 2.0. ASSOCIATED BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION LAY OVER NORTH ANDAMAN SEA AND ADJOINING EASTCENTRAL BAY OF BENGAL BETWEEN LATITUDE 13.0°N & 17.0°N AND LONGITUDE 90.0°E & 95.0°E AND ANDAMAN & NICOBAR ISLANDS. MINIMUM CLOUD TOP TEMPERATURE IS AROUND MINUS 93 °C.

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 30 KNOTS GUSTING TO 40 KNOTS. THE SEA CONDITION IS ROUGH TO VERY ROUGH OVER ANDAMAN SEA AND ADJOINING SOUTHEAST BAY OF BENGAL. THE ESTIMATED CENTRAL PRESSURE IS 1002 HPA.

STORM SURGE GUIDANCE

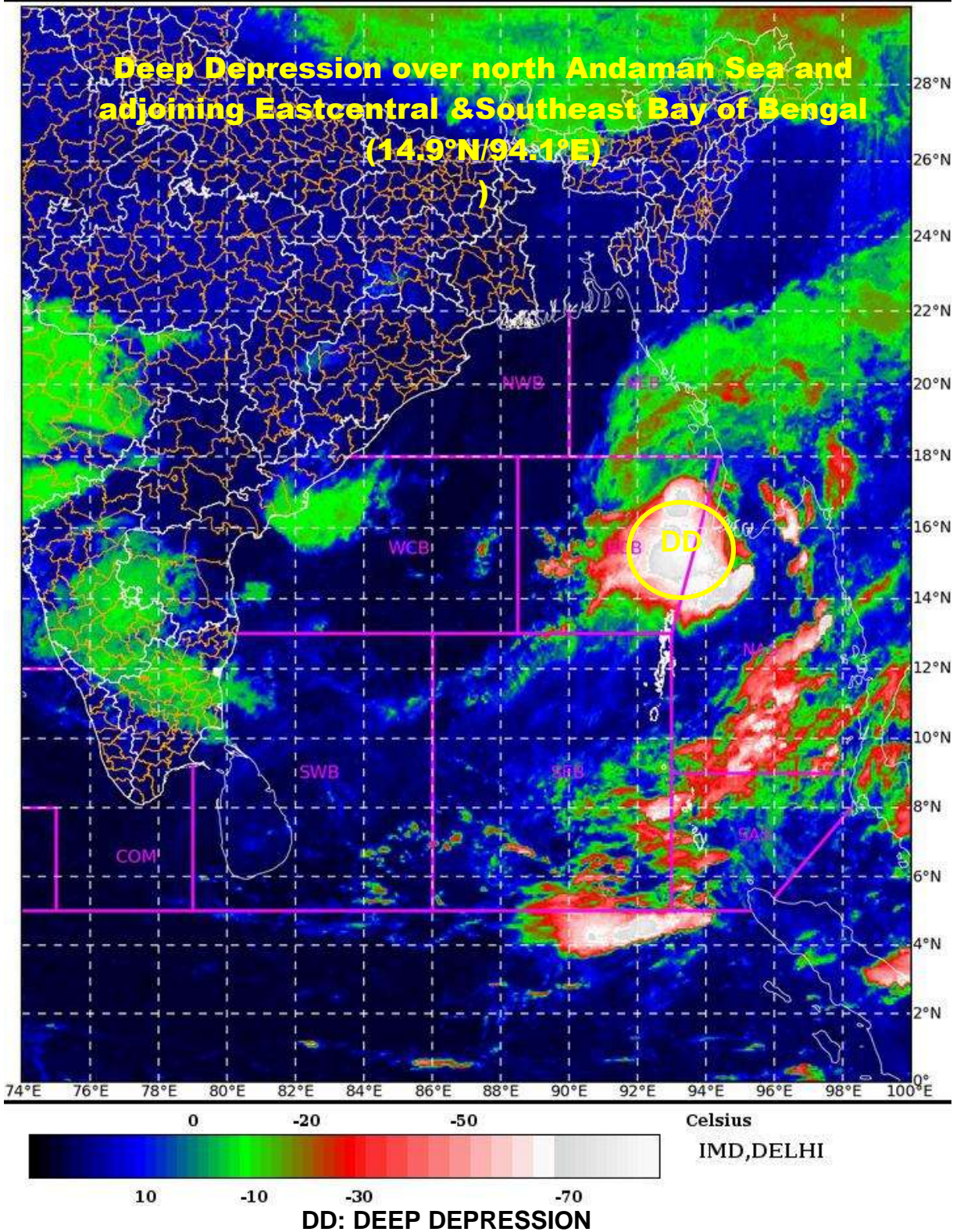
THE PEAK STORM SURGE OF 0.3 M TO 0.5 M OVER AND ABOVE THE ASTRONOMICAL TIDE IS LIKELY TO INUNDATE THE LOW LYING AREAS OF COASTAL MYANMAR.

REMARKS:

SEA SURFACE TEMPERATURE IS AROUND 29-30°C OVER ANDAMAN SEA, SOUTHEAST AND ADJOINING EASTCENTRAL BAY OF BENGAL (BOB). TROPICAL CYCLONE HEAT POTENTIAL IS AROUND 60-80 KJ/CM² OVER THE SAME REGION BECOMING LESS THAN 50 KJ/CM² OVER NORTH BOB. THE MADDEN JULIAN OSCILLATION (MJO) INDEX CURRENTLY LIES IN PHASE 3 WITH AMPLITUDE MORE THAN 1. IT WILL CONTINUE IN SAME PHASE FOR NEXT 2 DAYS AND MOVE TO PHASE 4 WITH AMPLITUDE REMAINING MORE THAN 1.

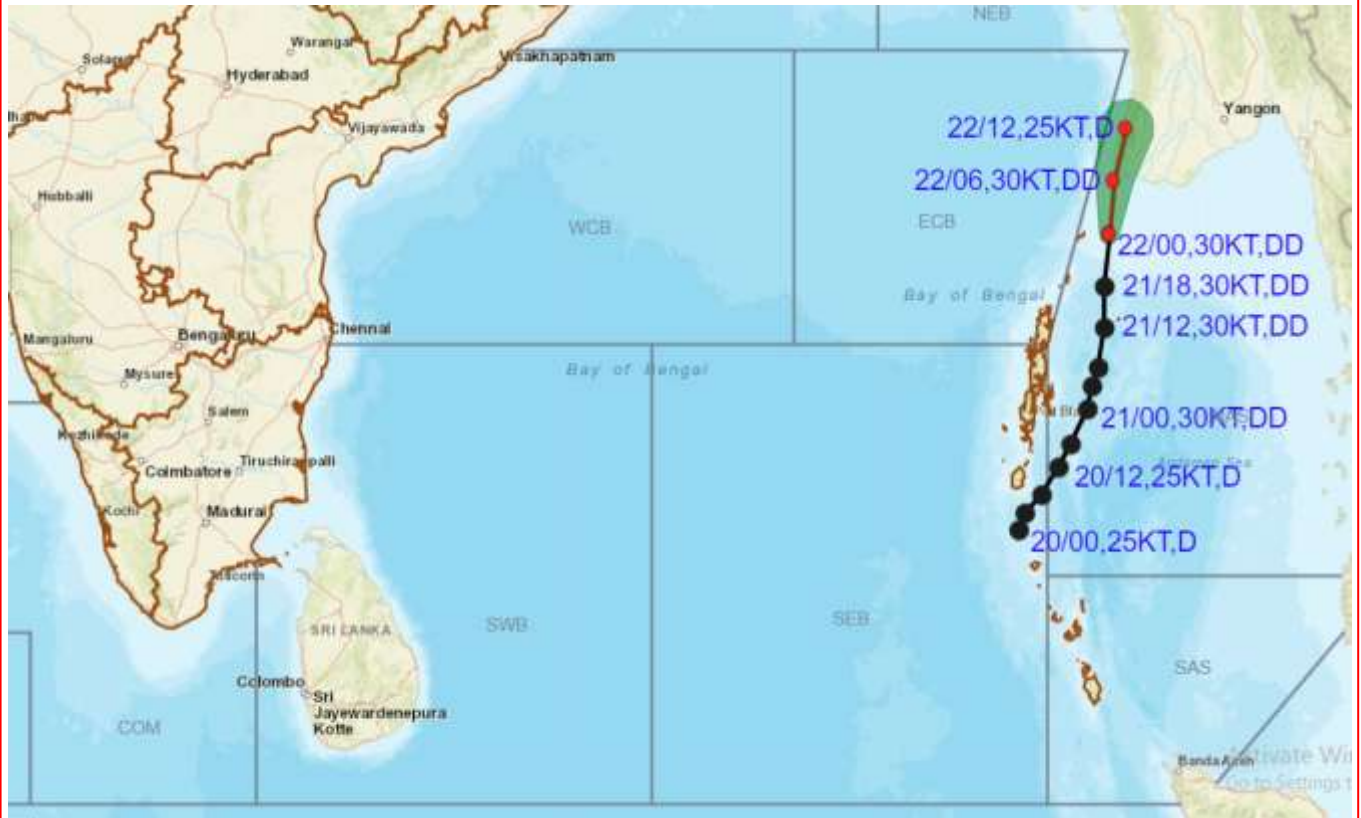
LOW LEVEL VORTICITY HAS REDUCED FROM 150 X10⁻⁶ S⁻¹ IN LAST 6 HOURS AND NOW IS AROUND 75 X10⁻⁶ S⁻¹ NEAR SYSTEM CENTRE WITH VERTICAL EXTENSION UPTO 500 HPA LEVEL. LOW LEVEL CONVERGENCE HAS ALSO REDUCED AND NOW IT IS 05X10⁻⁵ S⁻¹ TO THE NORTHEAST OF THE SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS AROUND 05 X10⁻⁵ S⁻¹ TO THE NORTH-NORTHEAST OF THE SYSTEM CENTRE. VERTICAL WIND SHEAR IS MODERATE TO HIGH (20-25 KNOTS) AROUND THE SYSTEM CENTRE WITH DECREASING TREND (BECOMING 10-15 KNOTS) ALONG THE EXPECTED TRACK OF THE SYSTEM. THE SYSTEM IS TRACKING NORTHWARDS ALONG THE PERIPHERY OF ANTICYCLONE LYING TO IT'S NORTHEAST OVER MYANMAR & ADJOINING THAILAND. UPPER TROPOSPHERIC RIDGE IS SEEN NEAR 17⁰N.

**(RK JENAMANI)
SCIENTIST-F
RSMC NEW DELHI**





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION OVER NORTH ANDAMAN SEA AND ADJOINING AREAS OF EASTCENTRAL BAY OF BENGAL BASED ON 0000 UTC OF 22nd MARCH 2022



DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
 SuCS: SUPER CYCLONIC STORM (\geq 120 KT)

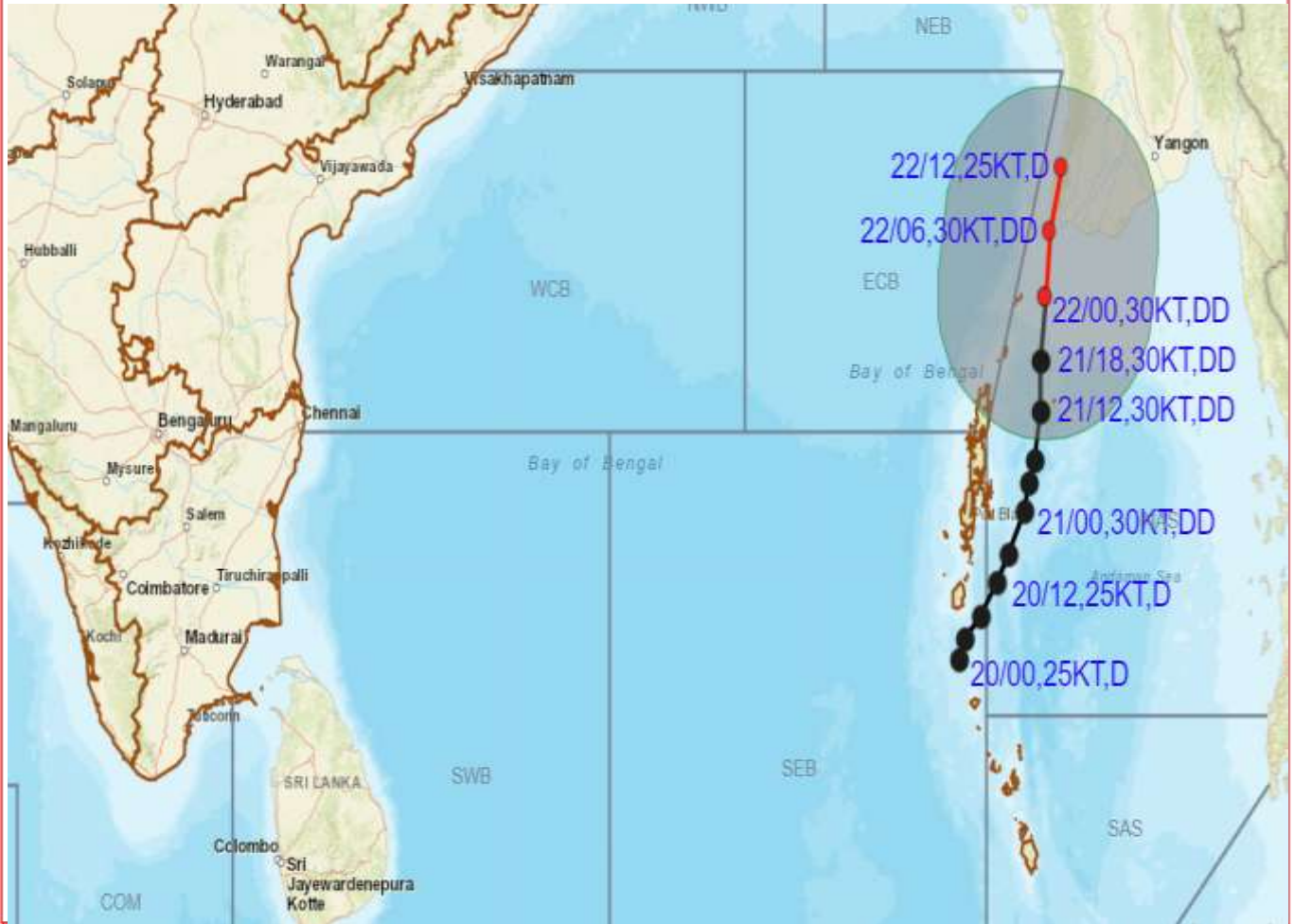
- LESS THAN 34 KT
- 34.47 KT
- \geq 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

STATIONS	DISTANCE(KM) AND DIRECTION FROM STATIONS	
	22.03.22/0000	22.03.22/1200
Yangon	300,SW	190,W
Tandwe	400,S	200,S
Hut bay	510,NNE	710,NNE
Portblair	390,NNE	590,NNE
Maya bundar	260,NNE	450,NNE

N:NORTH, NNE:NORTH-NORTHEAST, NE:NORTHEAST, ENE:EAST-NORTHEAST, E:EAST, SE:SOUTHEAST, SSE:SOUTH-SOUTHEAST, S:SOUTH, SSW:SOUTH-SOUTHWEST, SW:SOUTHWEST, WSW:WEST-SOUTHWEST, W:WEST, WNW:WEST-NORTHWEST, NW:NORTHWEST, NNW:NORTH-NORTHWEST



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION OVER NORTH ANDAMAN SEA AND ADJOINING AREAS OF EASTCENTRAL BAY OF BENGAL BASED ON 0000 UTC OF 22nd MARCH 2022

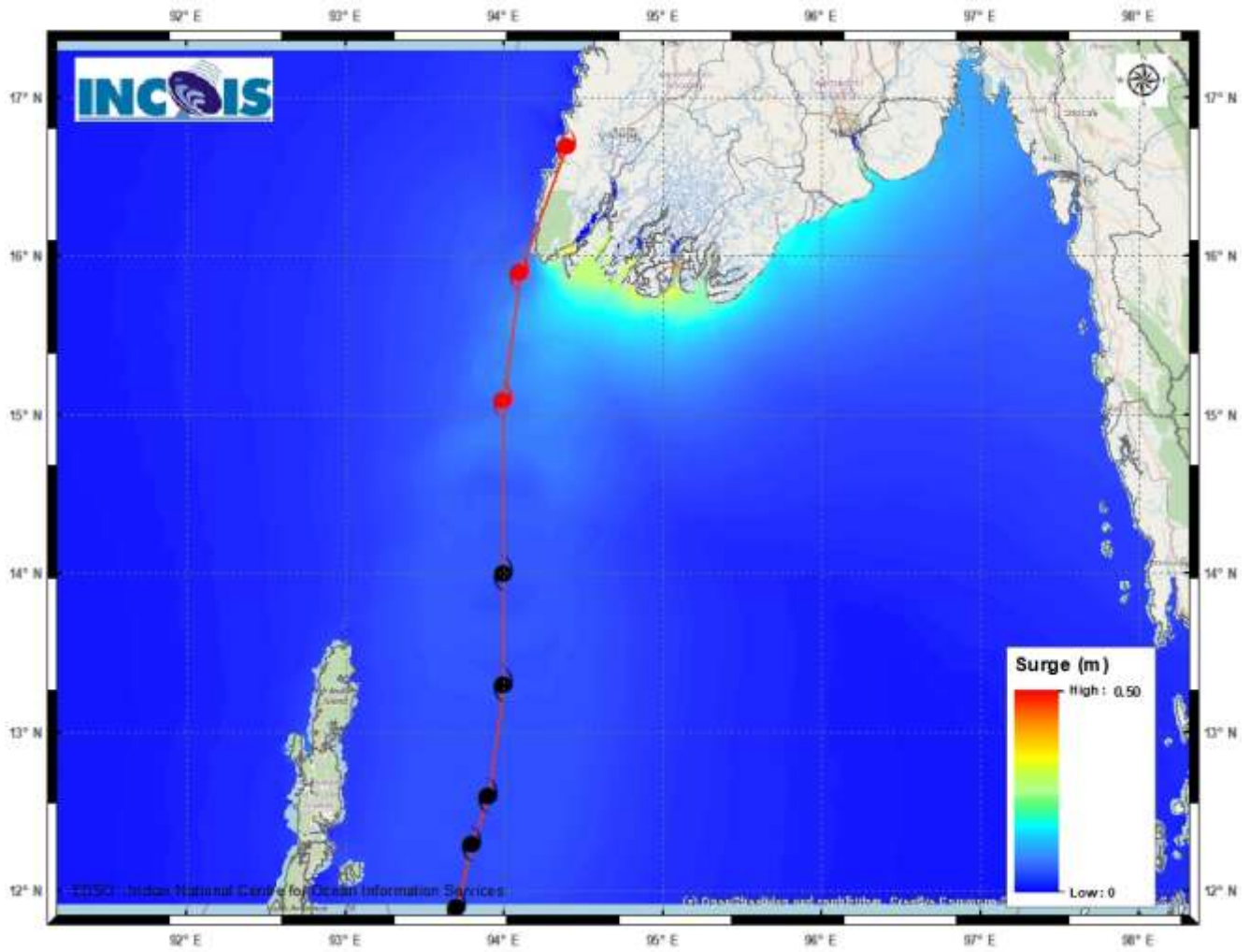


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SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

- LESS THAN 34 KT
- ◉ 34-47 KT
- ◐ ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- ◉ CONE OF UNCERTAINTY
- AREA OF MAXIMUM SUSTAINED WIND SPEED:
- 28-33 KT (52-61 KMPH)
- 34-49 KT (62-91 KMPH)
- 50-63 KT (92-117 KMPH)
- ≥ 64 KT (≥118 KMPH)

IMPACT OVER THE SEA

MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations



Storm Surge guidance for Myanmar coast.